

## CD105PCT.ST25.txt

## SEQUENCE LISTING

<110> CropDesign N.V.

<120> Plants having modified growth characteristics and method for making the same

<130> CD-105-PCT

<150> US 60/528,113

<151> 2003-12-09

<150> EP 03104280.7

<151> 2003-11-19

<160> 18

<170> PatentIn version 3.3

<210> 1

<211> 1428

<212> DNA

<213> Nicotiana tabacum

<220>

<221> misc\_feature

<223> seed\y1 coding sequence (CDS0689)

<400> 1

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ctgaaacccc	tttcggttag	gccatcagat	tcctt	gaat	ctgatttg	aagtaaggaa	180
aatcaaactc	ctttat	ttga	catct	gttaat	catctccgtt	accataaaag	240
ccacttaacc	cta	atgggc	tctgg	aaaat	tcaagactca	agccgaacaa	300
aaacagagtc	ttgat	gagat	gccc	gtcg	tttccgttat	tttccgttat	360
gagaagaaaa	tagac	gagga	tttcc	gtcg	tttccgttat	tttccgttat	420
agatttaggg	ctttg	gagaat	tttcc	gtcg	tttccgttat	tttccgttat	480
cgaggaaggg	ttgtgg	cagc	aaagt	tttgc	tttccgttat	tttccgttat	540
gagcgtatat	caat	gagtgc	aaag	tttgc	tttccgttat	tttccgttat	600
ccatctgaga	tttt	tactgg	aac	cgcc	tttccgttat	tttccgttat	660
ctagcaggga	caaca	aaggc	acgg	caattt	tttccgttat	tttccgttat	720
cagccaatac	aaa	acaggc	aaag	tctgt	tttccgttat	tttccgttat	780
gaaaaaagtt	caag	cctt	tc	ctt	tttccgttat	tttccgttat	840
acaaggcagg	cagt	tactac	aatt	gc	tttccgttat	tttccgttat	900
ttgagttcag	ttc	agccaa	gaag	tttgc	tttccgttat	tttccgttat	960
aagaagcccc	agg	ggcc	gg	tttgc	tttccgttat	tttccgttat	1020
tcatcagtag	tgagaa	agag	tttgc	tttgc	tttccgttat	tttccgttat	1080
gataagaaaac	gg	tcgtt	atc	tttgc	tttccgttat	tttccgttat	1140
ttgggtactg	aa	atcg	gggt	tttgc	tttccgttat	tttccgttat	1200
ggaaacacag	ag	atct	ccacta	tttgc	tttccgttat	tttccgttat	1260
cgaatttagga	tt	gtc	tcgtt	tttgc	tttccgttat	tttccgttat	1320
atgatagagt	tgat	aggca	aaat	cg	tttccgttat	tttccgttat	1380
gtctgtcaag	ttt	taag	ttt	tg	tttccgttat	tttccgttat	1428

<210> 2

<211> 475

<212> PRT

<213> Nicotiana tabacum

## CD105PCT.ST25.txt

<220>  
<221> MISC\_FEATURE  
<223> seedyl protein (CDS0689)

<400> 2  
Met Ser Val Leu Gln Tyr Pro Glu Gly Ile Asp Pro Ala Asp Val Gln  
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Ile Trp Asn Asn Ala Ala Phe Asp Asn Gly Asp Ser Glu Asp Leu Ser  
20 25 30  
  
Ser Leu Lys Arg Ser Trp Ser Pro Leu Lys Pro Leu Ser Val Arg Pro  
35 40 45  
  
Ser Asp Ser Phe Glu Ser Asp Leu Ser Ser Lys Glu Asn Gln Thr Pro  
50 55 60  
  
Leu Phe Glu Asn Ser Ser Val Asn Leu Ser Ser Pro Leu Pro Ile Lys  
65 70 75 80  
  
Pro Leu Asn Pro Asn Gly Ala Leu Glu Asn Ser Arg Leu Lys Pro Asn  
85 90 95  
  
Lys Pro Asn Ser Lys Gln Ser Leu Asp Glu Met Ala Ala Arg Lys Ser  
100 105 110  
  
Gly Lys Gly Asn Asp Phe Arg Asp Glu Lys Lys Ile Asp Glu Glu Ile  
115 120 125  
  
Glu Glu Ile Gln Met Glu Ile Ser Arg Leu Ser Ser Arg Leu Glu Ala  
130 135 140  
  
Leu Arg Ile Glu Lys Ala Glu Lys Thr Val Ala Lys Thr Val Glu Lys  
145 150 155 160  
  
Arg Gly Arg Val Val Ala Ala Lys Phe Met Glu Pro Lys Gln Ser Val  
165 170 175  
  
Ile Lys Ile Glu Glu Arg Ile Ser Met Ser Ala Arg Thr Lys Val Glu  
180 185 190  
  
Gln Arg Arg Gly Leu Ser Leu Gly Pro Ser Glu Ile Phe Thr Gly Thr  
195 200 205  
  
Arg Arg Arg Gly Leu Ser Met Gly Pro Ser Asp Ile Leu Ala Gly Thr  
210 215 220  
  
Thr Lys Ala Arg Gln Leu Gly Lys Gln Glu Met Ile Ile Thr Pro Ile  
225 230 235 240  
  
Gln Pro Ile Gln Asn Arg Arg Lys Ser Cys Phe Trp Lys Leu Gln Glu  
245 250 255  
  
Ile Glu Glu Glu Gly Lys Ser Ser Ser Leu Ser Pro Lys Ser Arg Lys  
260 265 270  
  
Thr Ala Ala Arg Thr Met Val Thr Thr Arg Gln Ala Val Thr Thr Ile  
275 280 285

## CD105PCT.ST25.txt

Ala Ser Lys Lys Asn Leu Lys Lys Asp Asp Gly Leu Leu Ser Ser Val  
 290                    295                    300

Gln Pro Lys Lys Leu Phe Lys Asp Leu Glu Lys Ser Ala Ala Ala Asn  
 305                    310                    315                    320

Lys Lys Pro Gln Arg Pro Gly Arg Val Val Ala Ser Arg Tyr Asn Gln  
 325                    330                    335

Ser Thr Ile Gln Ser Ser Val Val Arg Lys Arg Ser Leu Pro Glu Asn  
 340                    345                    350

Asp Lys Asp Glu Ser Lys Arg Asn Asp Lys Lys Arg Ser Leu Ser Val  
 355                    360                    365

Gly Lys Thr Arg Val Ser Gln Thr Glu Ser Lys Asn Leu Gly Thr Glu  
 370                    375                    380

Ser Arg Val Lys Lys Arg Trp Glu Ile Pro Ser Glu Ile Val Val His  
 385                    390                    395                    400

Gly Asn Thr Glu Ser Glu Lys Ser Pro Leu Ser Ile Ile Val Lys Pro  
 405                    410                    415

Asp Leu Leu Pro Arg Ile Arg Ile Ala Arg Cys Val Asn Glu Thr Leu  
 420                    425                    430

Arg Asp Ser Gly Pro Ala Lys Arg Met Ile Glu Leu Ile Gly Lys Lys  
 435                    440                    445

Ser Phe Phe Ser Ser Asp Glu Asp Lys Glu Pro Pro Val Cys Gln Val  
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Leu Ser Phe Ala Glu Glu Asp Ala Glu Glu Glu  
 465                    470                    475

<210> 3  
 <211> 1336  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <221> misc\_feature  
 <223> seedyl coding sequence

<400> 3  
 atggaggagg acccgctcat cccgctggtc cacgtctggaa acaacgccgc cttcgacgac        60  
 tcctcgttgt ccagatcgcc ttggctcccc caaagccccg ccgtcgccgccc cgtccgcaag        120  
 ggcgacaagg agaatcacccg ccccgagggtt gttgtatgtcg ccgccccggcta cgacgtcgag        180  
 gccgagatcg gccacatcgaa ggcggagatc ctgcgcctct cgtcccggtt ccaccatctc        240  
 cgcgtctcca agcagccgga gcccaaccgc gacgaaegctc cgatggggga gatgtcgcg        300  
 aagtgtggc cccggccgag ggcctcagc ctcggggccc tggatgtgtat ctccatcgtc        360  
 aatcgtgaga agcatccgct ggcaccaag cagccctccgg cgacgcgggg cagggggctc        420  
 agctcgggc ccatggagat cggccgcggcg aacccttaggg tgccccggc ggcgcagcat        480  
 cagcaacagc aacgcgttgg cacggcgccg atcctgaagc caatcaagga gcctccggtg        540  
 cagcgtcgca ggggcgtcag cctcgccggcc ttggagatcc accacggcgat cggcagcaag        600  
 gcaccagcgcc cggcgccgagc caagccgttc accaccaagc tcaacgcat tcgagaagaa        660  
 acccgaccct ccaagcaatt cggccgtcccc gccaagccat ggcggcgtcag caatacaagg        720  
 cagacactgg actcgaggca aggaacagca gcaagtcgag cgaaggcgag gagcccgagc        780

## CD105PCT.ST25.txt

cccaggccca	ggaggcaatc	caatggcaag	gctactgaca	caaggggagg	caacaagg	tggtgatgagc	tcaagcccaa	aggtgcgtcg	tcaagtca	gcggcagcgc	cggccgcgc	840			
gccactgcca	agaggatggc	ggggagctcc	aagatgaggg	tcatcccag	ccgctacagc	ctcactcccg	gcgcttccct	ttgaagcagt	ggagcacagg	agaggcagc	caagcagtct	900			
ctccccaggat	catcagggga	tgcgaaccag	aatgaggaaa	tcagagcga	ggatcgag	ccttccaatg	atccactctc	tcctcaa	atcctaagg	ttgctgaaat	gctcccaaag	960			
atcaggacca	tgccgcctcc	tgacgagagc	cctcgcgatt	ccggatgcgc	caagcggg	gccaattgg	tcggaagcg	ctcg	acgctgcag	ccgaggacgg	gccccgcctc	1020			
gacgtcgaag	cacccgagc	ggtgcgagaa	gcttgagatg	aaccaccatg	gtttgatccg	ttccat	cagctc					1080			
												1140			
<210>	4														
<211>	431														
<212>	PRT														
<213>	Oryza sativa														
<220>															
<221>	MISC_FEATURE														
<223>	seedyl protein														
<400>	4														
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Ala	Phe	Asp	Asp	Ser	Ser	Cys	Ser	Arg	Ser	Ala	Trp	Leu	Pro	Gln	Ser
20															30
Pro	Ala	Val	Ala	Ala	Val	Arg	Lys	Gly	Asp	Lys	Glu	Asn	His	Arg	Pro
35															45
Glu	Val	Val	Asp	Val	Ala	Ala	Gly	Tyr	Asp	Val	Glu	Ala	Glu	Ile	Gly
50															60
His	Ile	Glu	Ala	Glu	Ile	Leu	Arg	Leu	Ser	Ser	Arg	Leu	His	His	Leu
65															80
Arg	Val	Ser	Lys	Gln	Pro	Glu	Pro	Asn	Arg	Asp	Asp	Ala	Pro	Met	Gly
85															95
Glu	Met	Val	Ala	Lys	Val	Arg	Pro	Arg	Pro	Arg	Gly	Leu	Ser	Leu	Gly
100															110
Pro	Leu	Asp	Val	Ile	Ser	Ile	Val	Asn	Arg	Glu	Lys	His	Pro	Leu	Arg
115															125
Thr	Lys	Gln	Pro	Pro	Ala	Thr	Arg	Gly	Arg	Gly	Leu	Ser	Leu	Gly	Pro
130															140
Met	Glu	Ile	Ala	Ala	Asn	Pro	Arg	Val	Pro	Ala	Ala	Gln	His		
145															160
Gln	Gln	Gln	Arg	Ala	Gly	Thr	Ala	Arg	Ile	Leu	Lys	Pro	Ile	Lys	
165															175
Glu	Pro	Pro	Val	Gln	Arg	Arg	Gly	Val	Ser	Leu	Gly	Pro	Leu	Glu	
180															190
Ile	His	His	Gly	Val	Gly	Ser	Lys	Ala	Pro	Ala	Ala	Arg	Ala	Lys	
195															205

## CD105PCT.ST25.txt

Pro Phe Thr Thr Lys Leu Asn Ala Ile Arg Glu Glu Thr Arg Pro Ser  
 210 215 220

Lys Gln Phe Ala Val Pro Ala Lys Pro Trp Pro Ser Ser Asn Thr Arg  
 225 230 235 240

Gln Thr Leu Asp Ser Arg Gln Gly Thr Ala Ala Ser Arg Ala Lys Ala  
 245 250 255

Arg Ser Pro Ser Pro Arg Pro Arg Arg Gln Ser Asn Gly Lys Ala Thr  
 260 265 270

Asp Thr Arg Gly Gly Asn Lys Val Val Asp Glu Leu Lys Pro Lys Gly  
 275 280 285

Ala Ser Ser Ser Gln Ser Gly Ser Ala Ala Ala Ala Ala Thr Ala Lys  
 290 295 300

Arg Met Ala Gly Ser Ser Lys Met Arg Val Ile Pro Ser Arg Tyr Ser  
 305 310 315 320

Leu Thr Pro Gly Ala Ser Leu Gly Ser Ser Gly Ala Gln Glu Arg Arg  
 325 330 335

Arg Lys Gln Ser Leu Pro Gly Ser Ser Gly Asp Ala Asn Gln Asn Glu  
 340 345 350

Glu Ile Arg Ala Lys Val Ile Glu Pro Ser Asn Asp Pro Leu Ser Pro  
 355 360 365

Gln Thr Ile Ser Lys Val Ala Glu Met Leu Pro Lys Ile Arg Thr Met  
 370 375 380

Pro Pro Pro Asp Glu Ser Pro Arg Asp Ser Gly Cys Ala Lys Arg Val  
 385 390 395 400

Ala Glu Leu Val Gly Lys Arg Ser Phe Phe Thr Ala Ala Ala Glu Asp  
 405 410 415

Gly Arg Ala Leu Asp Val Glu Ala Pro Glu Ala Val Ala Glu Ala  
 420 425 430

<210> 5  
 <211> 1860  
 <212> DNA  
 <213> *Medicago trunculata*

<220>  
 <221> misc\_feature  
 <223> seedyl coding sequence

<400> 5  
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 cctatttaca gggatcttaa atataattaa ccctaatttat tatgacagaaa accctttga 120  
 aatcacatcg gagcgtgtat gagtagccgt ttcacatcca acggccagta agagcgtaac 180  
 tttatttctt ccctcttcaa tctccaacgg tcacataatc tcttccaaat acaaataatt 240  
 ccctcttca acctcactct tcatttcttc aacccaaacc caaaaaacta atcagattct 300  
 tcttaaatct tggaaacctt ctccccaaaag cacttaaataa aaaaagcact taaccatgaa 360

## CD105PCT.ST25.txt

taacacaaaac aacaacaaca ttcttctca ttccacacag gttcaagtgt ggaacaacgc	420
agcattcgat ggtaaagatt tcgccccatcaa ttcatcttct gattccatca aagagaatct	480
aaaccatcc gcattcaaca ttgttccttc ttcaaacaaa agaactattg atgatgaaat	540
tgcggaaatt gaaagtaaaa ttaagcgatt aacttcgaag ctggatttc ttcgtgttga	600
aaaagctgaa agaaaaatcg cttctgaaaa gcgtgttagt ggaattggta ctggaaagaat	660
agtagcagcg aagtttatgg aaccgaagaa aaacgttaca ccgaaacgaa acgggtgtcg	720
tttcaaggag gagacaccga aacgaaacgg tgcgtttcg gatacggcga aatctagggt	780
taattggaga agaggatga gtttaggtcc gatggagatt gcccggaaag tgatggcacc	840
gccggcgtg acgattactc cggcgtacgt gaatcgagg aagtcttgaa tctggaaacc	900
gcaggaaagt tgtgaagtaa tgccgtcgaa gattactccg ggcacggta ataggaggaa	960
atcttggttt ttgaaacctc aagaaaggta tgaagaaaat cgaagaaaaa cgatttgc当地	1020
accgaattt aatttgaatt caaattcagt taattctcg gttggatcga ttaagcgtgt	1080
gaagaagaaa gatgaagaaa ttgctcaggt tcaaccgaag aagctttt aaggtgaaaa	1140
atcagtgaag aaatcgttga aacaaggtag aatttttgcg agccggata attccgggt	1200
tgggtgtgt gatgcgagga aaagatcgat ttccggaaat aataagggtt tagggagtga	1260
aatcagggtc aagaagagat gggagatacc aatttgaagaa gtggatgtga gtggtttgc	1320
tatgttaccg aagatttgcg caatggatgt ttttgcgttgc aagtttgcg attctgggt	1380
tgttaaaaga gttgtgttgc tgaatggaaa aagatcttac ttttgcgttgc aagatggagga	1440
ggagagagtg atgggtgggg aagaaggtagg ttctgtttgt cagggttttgcg attttgc当地	1500
agatgtatgat gatgtatgttgc attatggta acaagggtaa ttgtggaaat tggaaatttgc当地	1560
ttgtttttgtt ggggttgcg ggaactggct atgttgcgt tgatttttgcg atttttgc当地	1620
gtgaaactaa agatggatgttgc aaaagtttat gcttgcgaaat ttggatttgcg ttatatttgc当地	1680
tgaaataata acaacaagca ttttgcgttgc ttaataatttgc tatatttgcg ttgttgc当地	1740
ataatgtatgat ggttttgcgaaat ttttgcgttgc ttaataatata gtttttgcg agagattttgc当地	1800
tcgttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc ttttgcgttgc当地	1860

<210> 6  
<211> 394  
<212> PRT  
<213> *Medicago trunculata*

&lt;220&gt;

<221> MISC\_FEATURE  
<223> seedyl protein

&lt;400&gt; 6

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1	5	10	15

Gln Val Trp Asn Asn Ala Ala Phe Asp Gly Glu Asp Phe Ala Met Asn		
20	25	30

Ser Ser Ser Asp Ser Ile Lys Glu Asn Leu Asn Pro Ser Ala Phe Asn		
35	40	45

Ile Val Pro Ser Ser Asn Lys Arg Thr Ile Asp Asp Glu Ile Ala Glu		
50	55	60

Ile Glu Ser Glu Ile Lys Arg Leu Thr Ser Lys Leu Glu Leu Leu Arg			
65	70	75	80

Val Glu Lys Ala Glu Arg Lys Ile Ala Ser Glu Lys Arg Val Ser Gly		
85	90	95

Ile Gly Thr Gly Arg Ile Val Ala Ala Lys Phe Met Glu Pro Lys Lys		
100	105	110

Asn Val Thr Pro Lys Arg Asn Gly Val Val Phe Lys Glu Glu Thr Pro		
115	120	125

## CD105PCT.ST25.txt

Lys Arg Asn Gly Val Val Ser Asp Thr Pro Lys Ser Arg Val Asn Trp  
 130 135 140  
 Arg Arg Gly Met Ser Leu Gly Pro Met Glu Ile Ala Gly Lys Val Met  
 145 150 155 160  
 Ala Pro Pro Ala Met Thr Ile Thr Pro Ala Thr Val Asn Arg Arg Lys  
 165 170 175  
 Ser Cys Phe Trp Lys Pro Gln Glu Ser Cys Glu Val Met Pro Ser Gly  
 180 185 190  
 Ile Thr Pro Ala Thr Val Asn Arg Arg Lys Ser Cys Phe Leu Lys Pro  
 195 200 205  
 Gln Glu Ser Cys Glu Glu Asn Arg Arg Lys Thr Ile Cys Lys Pro Asn  
 210 215 220  
 Leu Asn Leu Asn Ser Asn Ser Val Asn Ser Ala Val Gly Ser Ile Lys  
 225 230 235 240  
 Arg Val Lys Lys Lys Asp Glu Glu Ile Ala Gln Val Gln Pro Lys Lys  
 245 250 255  
 Leu Phe Glu Gly Glu Lys Ser Val Lys Lys Ser Leu Lys Gln Gly Arg  
 260 265 270  
 Ile Val Ala Ser Arg Tyr Asn Ser Gly Gly Gly Gly Asp Ala Arg  
 275 280 285  
 Lys Arg Ser Phe Ser Glu Asn Asn Lys Gly Leu Gly Ser Glu Ile Arg  
 290 295 300  
 Ala Lys Lys Arg Trp Glu Ile Pro Ile Glu Glu Val Asp Val Ser Gly  
 305 310 315 320  
 Phe Val Met Leu Pro Lys Ile Ser Thr Met Arg Phe Val Asp Glu Ser  
 325 330 335  
 Pro Arg Asp Ser Gly Ala Val Lys Arg Val Ala Glu Leu Asn Gly Lys  
 340 345 350  
 Arg Ser Tyr Phe Cys Asp Glu Asp Glu Glu Arg Val Met Val Glu  
 355 360 365  
 Glu Glu Gly Gly Ser Val Cys Gln Val Leu Asn Phe Ala Glu Asp Asp  
 370 375 380  
 Asp Asp Asp Asp Asp Tyr Gly Glu Gln Gly  
 385 390  
 <210> 7  
 <211> 674  
 <212> DNA  
 <213> Saccharum sp.  
 <220>  
 <221> misc\_feature

## CD105PCT.ST25.txt

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<223> seedy1 coding sequence (partial 5' end)

<220>
<221> misc_feature
<222> (362)..(362)
<223> n can be a, c, g or t

<220>
<221> misc_feature
<222> (372)..(372)
<223> n can be a, c, g or t

<220>
<221> misc_feature
<222> (674)..(674)
<223> n can be a, c, g or t

<400> 7
cgcacccgca gtttcgaaaa accaacctat cgccgcctcag atcacgcgag gacgcgagggg      60
gaaggcaggaa tccctccgct cccagccgcc tcctccgctc accccatcgat cgatcgccg      120
tccgggtccag ggggctctcc ggcggcgggtg gcgatggagg aggaccggct catcccgtg      180
gtgcacgtct ggaacaacgc cgccctcgac cacgcctcct cctccgcgtg gcacgcggccac      240
tccccctgtgc cccgcgagcgc acgtcgccag gcggagggggg acaaggagaa ccaccgcggcc      300
gaccccgacc cccgacgtcga ggcggagatc ggcacatcg aggccggagat cctgcgcgtg      360
tnctcccgcc tnccaccaccc tcgcacccatcc aagcagtccgg agccgtccaa gcgcggagaa      420
gtcgcgcggcc cgcccgccgc gaaggcggaaa gcggcggcgg cggcgcggct gcggacgcgg      480
gggctcagcc tggggcccgct cgacgtcgcc getgcccgtta accccaaccc gtcaccacc      540
gacaaccaggc agcagcagcc gcgtgcggcg cagggtctga agccgatcaa gcaggccacg      600
gcggcggccgg gcaaggggct aagacttggg ccccttcgac atggtcggcg cgaacccttag      660
gtccccctccg cccn                                         674

<210> 8
<211> 166
<212> PRT
<213> Saccharum sp.

<220>
<221> MISC_FEATURE
<223> seedy1 protein

<220>
<221> MISC_FEATURE
<223> seedy1 protein (partial N term)

<220>
<221> MISC_FEATURE
<222> (70)..(70)
<223> Xaa can be any amino acid

<400> 8
Met Glu Glu Asp Pro Leu Ile Pro Leu Val His Val Trp Asn Asn Ala
1          5           10          15

Ala Phe Asp His Ala Ser Ser Ala Trp His Ala His Ser Pro Val
20         25           30

Pro Ala Ser Ala Arg Arg Glu Ala Glu Gly Asp Lys Glu Asn His Arg
35         40           45

```

## CD105PCT.ST25.txt

Pro Asp Pro Asp Pro Asp Val Glu Ala Glu Ile Gly His Ile Glu Ala  
 50 55 60

Glu Ile Leu Arg Leu Xaa Ser Arg Leu His His Leu Arg Thr Ser Lys  
 65 70 75 80

Gln Ser Glu Pro Ser Lys Arg Gly Glu Val Ala Pro Ala Pro Ala Ala  
 85 90 95

Lys Ala Lys Ala Ala Ala Ala Arg Leu Arg Thr Arg Gly Leu Ser  
 100 105 110

Leu Gly Pro Leu Asp Val Ala Ala Gly Asn Pro Asn Pro Leu Thr  
 115 120 125

Thr Asp Asn Gln Gln Gln Pro Arg Ala Ala Gln Gly Leu Lys Pro  
 130 135 140

Ile Lys Gln Ala Thr Ala Ala Ala Gly Lys Gly Val Arg Leu Gly Pro  
 145 150 155 160

Leu Arg His Gly Arg Arg  
 165

<210> 9  
 <211> 876  
 <212> DNA  
 <213> Zea mays

<220>  
 <221> misc\_feature  
 <223> seedy1 coding sequence (partial 3' end)

<220>  
 <221> misc\_feature  
 <222> (869)..(869)  
 <223> n = a, c, g or t

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 caagcagagc caaggcgagg agcgggagca taagcccccag caggttcaagg aggcatgtcca 180  
 ctcccaaggc tgccgagaca agagcgggaa atgccaagcc tacagaggcg acgaggggag 240  
 ggagcgaagc ggtcaatcac accagcaatg tagccacgac gaagaggccg gcggggagct 300  
 ccaaggtcag ggttgcggc agccgctaca gcatccacc tggctccctcc cttagcagctg 360  
 tgacacaagg caaccgatgc aagcagtctc tcccaggatc ggctactgg accagagtaa 420  
 atctcaatgc gccgcggaaac gacgagttgt ctcttgaaga acttgccaaag gtggcagagc 480  
 tgctcccaag gattaggacc atgcccgcctt ctgtatggagag cccgcgtgc tcggatgtg 540  
 ccaagcgtgt tgctgatgg tgcgggaaagc gatccctt cactgctgca gggacgtg 600  
 gcaatctcgat tacgcctac caggcacggg tggttgaact tgaatcaccc gaggcagcag 660  
 cagaagaagc agaagcttga gaagtttgc tttgatcaat tccgaagttgg cttgcattgt 720  
 ggcgtggcct cttttgcag tgtgtgtac tacatagtct actgttatcat tcataatcata 780  
 tcacatttcc tatttttcc cccttgagac attgcttagt acttttgtgt tgccttgc 840  
 aaagagagtgc gaaggttcat ctgctgatnc cttgtt 876

<210> 10  
 <211> 224  
 <212> PRT  
 <213> Zea mays

## CD105PCT.ST25.txt

<220>  
 <221> MISC\_FEATURE  
 <223> seedyl protein (partial C term)

<400> 10  
 Thr Arg Pro Ala Val Arg Glu Glu Gly Gln Arg Ser Lys Glu His  
 1 5 10 15

Ala Val Pro Ala Arg Pro Trp Pro Ser Ser Asn Ala Arg His Pro Leu  
 20 25 30

Asp Ala Arg Gln Gly Thr Ala Ala Ser Arg Ala Lys Ala Arg Ser Gly  
 35 40 45

Ser Ile Ser Pro Ser Arg Phe Arg Arg Gln Ser Thr Ser Lys Ala Ala  
 50 55 60

Glu Thr Arg Ala Gly Asn Ala Lys Pro Thr Glu Ala Thr Arg Gly Gly  
 65 70 75 80

Ser Glu Ala Val Asn His Thr Ser Asn Val Ala Thr Thr Lys Arg Pro  
 85 90 95

Ala Gly Ser Ser Lys Val Arg Val Val Pro Ser Arg Tyr Ser Ile Pro  
 100 105 110

Pro Gly Ser Ser Leu Ala Ala Val Thr Gln Gly Asn Arg Cys Lys Gln  
 115 120 125

Ser Leu Pro Gly Ser Ala Thr Glu Thr Arg Val Asn Leu Thr Glu Pro  
 130 135 140

Pro Asn Asp Glu Leu Ser Pro Glu Glu Leu Ala Lys Val Ala Glu Leu  
 145 150 155 160

Leu Pro Arg Ile Arg Thr Met Pro Pro Ser Asp Glu Ser Pro Arg Asp  
 165 170 175

Ser Gly Cys Ala Lys Arg Val Ala Asp Leu Val Gly Lys Arg Ser Phe  
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Phe Thr Ala Ala Gly Asp Asp Gly Asn Leu Val Thr Pro Tyr Gln Ala  
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Arg Val Val Glu Leu Glu Ser Pro Glu Ala Ala Ala Glu Glu Ala Glu  
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<210> 11  
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 <213> Arabidopsis thaliana

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 <221> misc\_feature  
 <223> seedyl coding sequence

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## CD105PCT.ST25.txt

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gtttcctctt	cgctccaatc	ctcagtctcg	atcacccgaag	ctccgtcagc	aaaatccaag	240
accgtgaaga	ccaaatccgc	cgcagatcg	agtaaaaagc	gagatatcga	tgcagagatc	300
gaagaagtag	agaaggagat	cggacgatta	tcgacgaaat	tggagtgcgt	ccgatttagag	360
aaggcggagc	aaaccgcaag	aagcattgt	atacgtggaa	gaatcggtcc	ggcgaagttc	420
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gtttctgt	aaagtaacaa	gagtgaaggg	agagtgaaga	agagatggga	gattccaagt	1020
gaaggttgc	tgtatagcag	tggtgagaac	ggtgacgagt	ctcctatagt	taaggagcta	1080
cctaagatca	gaaacgttcg	tcgtgtgg	gggagccctc	gtgattcagg	tgctgctaag	1140
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&lt;211&gt; 402

&lt;212&gt; PRT

&lt;213&gt; Arabidopsis thaliana

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;223&gt; seedyl protein

&lt;400&gt; 12

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		20					25					30			

Ser	Ala	Ile	Glu	Ala	Ser	Ser	Trp	Ser	His	Leu	Asn	Glu	Ser	Phe	Asp
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Ser	Asp	Cys	Ser	Lys	Glu	Asn	Gln	Phe	Pro	Ile	Ser	Val	Ser	Ser	Ser
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Leu	Gln	Ser	Ser	Val	Ser	Ile	Thr	Glu	Ala	Pro	Ser	Ala	Lys	Ser	Lys
65				70				75					80		

Thr	Val	Lys	Thr	Lys	Ser	Ala	Ala	Asp	Arg	Ser	Lys	Lys	Arg	Asp	Ile
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Asp	Ala	Glu	Ile	Glu	Glu	Val	Glu	Lys	Glu	Ile	Gly	Arg	Leu	Ser	Thr
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Lys	Leu	Glu	Ser	Leu	Arg	Leu	Glu	Lys	Ala	Glu	Gln	Thr	Ala	Arg	Ser
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Ile	Ala	Ile	Arg	Gly	Arg	Ile	Val	Pro	Ala	Lys	Phe	Met	Glu	Ser	Ser
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## CD105PCT.ST25.txt

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180	185	190	
Arg Arg Lys Ser Cys Phe Phe Lys Leu Pro Gly Ile Glu Glu Gly Gln			
195	200	205	
Val Thr Thr Arg Gly Lys Gly Arg Thr Ser Leu Ser Leu Ser Pro Arg			
210	215	220	
Ser Arg Lys Ala Lys Met Thr Ala Ala Gln Lys Gln Ala Ala Thr Thr			
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Val Gly Ser Lys Arg Ala Val Lys Lys Glu Glu Gly Val Leu Leu Thr			
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Ile Gln Pro Lys Arg Leu Phe Lys Glu Asp Glu Lys Asn Val Ser Leu			
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Arg Lys Pro Leu Lys Pro Gly Arg Val Val Ala Ser Arg Tyr Ser Gln			
275	280	285	
Met Gly Lys Thr Gln Thr Gly Glu Lys Asp Val Arg Lys Arg Ser Leu			
290	295	300	
Pro Glu Asp Glu Glu Lys Glu Asn His Lys Arg Ser Glu Lys Arg Arg			
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Ala Ser Asp Glu Ser Asn Lys Ser Glu Gly Arg Val Lys Lys Arg Trp			
325	330	335	
Glu Ile Pro Ser Glu Val Asp Leu Tyr Ser Ser Gly Glu Asn Gly Asp			
340	345	350	
Glu Ser Pro Ile Val Lys Glu Leu Pro Lys Ile Arg Thr Leu Arg Arg			
355	360	365	
Val Gly Gly Ser Pro Arg Asp Ser Gly Ala Ala Lys Arg Val Ala Glu			
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Leu Gln Ala Lys Asp Arg Asn Phe Thr Phe Cys Gln Leu Leu Lys Phe			
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<211> 3074  
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## CD105PCT.ST25.txt

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ccttatcaca	ttgacacata	aagtggatGA	tgagtctaa	tattatTTTC	tttgctacCC	420
atcatgtata	tatgatAGCC	acaaaAGTTAC	tttgatgatG	atATCAAAGA	acatTTTtag	480
gtgcacctaA	cagaatATCC	aaataatATG	actcaCTTAG	atcataatAG	agcatcaAGT	540
aaaactaaca	ctctaaAGCA	accgatGGGA	aagcatCTAT	aaatAGACAA	gcacaatGAA	600
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cacacaACAA	ataAGAGAAA	aaACAAATAA	tattaATTG	agaATGAACA	aaaggACCAT	2940
atcattcATT	aactCTTCTC	catCCATTTC	cattTCACAG	ttcGATAGCG	aaaACCGAAT	3000
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<211> 668  
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<213> Oryza sativa

## CD105PCT.ST25.txt

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gttattgtaa agttctacaa agctaattt aaagttattt cattaactt ttcatatta      180
caaacaagag tgtcaatgga acaatgaaaa ccataatgaca tactataatt ttgttttat      240
tattgaaatt atataattca aagagaataa atccacatag ccgtaaagtt ctacatgtgg      300
tgcattacca aaatatata agtttacaaa acatgacaag cttagttga aaaattgcaa      360
tccttatacac attgacacat aaagttagtg atgagtata atattattt tcttgctacc      420
catcatgtat atatgatagc cacaaagttt ctttgatgtat gatataaag aacattttta      480
ggtgcaccta acagaatatac caaataatata gactcactt gatcataata gagcatcaag      540
taaaactaac actctaaagc aaccgatggg aaagcatcta taaatagaca agcacaatga      600
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<223> Motif 1 CORE SEQUENCE

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<223> Xaa can be any amino acid

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<210> 16
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Motif 2 CORE SEQUENCE

<220>
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<210> 17
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## CD105PCT.ST25.txt

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<223> Motif 3 (coiled coil) CORE SEQUENCE

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<211> 15  
<212> PRT  
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<220>  
<223> Motif 4 CORE SEQUENCE

<220>  
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<223> Xaa can be any amino acid

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CD105PCT.ST25.txt

Leu Pro Xaa Ile Xaa Arg Asp Ser Gly Xaa Xaa Lys Arg Xaa Lys  
1 5 10 15